

ABSTRACT

Anežka Adamcová

Diarrheal diseases caused by *Salmonella* sp. and *Campylobacter* sp.

Bachelor thesis

Charles University in Prague, Faculty of pharmacy in Hradec Králové

Laboratory technician

This bachelor thesis deals with diarrheal disease caused by *Campylobacter* sp. and *Salmonella* sp. The thesis is divided to four sections.

The first section is about diarrhoea and its characteristics and causes. In the second section the characteristics of *Campylobacter* sp. is described and the major part of this section describes campylobacter enteritis or campylobacteriosis. *Campylobacter jejuni* is the most common agent. The third section deals with *Salmonella* sp. It again describes characteristics of this genus and focuses on salmonellosis enteritis or salmonellosis. *Salmonella* Enteritidis is the most common agent.

Both genera are gram-negative bacteria and they affect intestinal tract. They cause bacterial enteritis, which is often connected with diarrhoea. Incidence of campylobacteriosis exceeded the incidence of salmonellosis for the first time in 2007. Infections have similar course. Besides diarrhoea, fever and stomach ache can also occur. Pain is similar as in case of appendicitis. Laboratory test is needed to differentiate between the two.

In the last section I analyzed data obtained from the Centre for Clinical Microbiology in Hradec Králové University hospital. There is a summary of stool examinations from the period between year 2011 and year 2015.